

AMENDMENTS TO THE SPECIFICATION

1. Please add the following paragraph to the specification, immediately following the first paragraph of the application:

STATEMENT OF FEDERALLY SPONSORED RESEARCH

This invention was made with government support under grant no. 70NANB2H3046 from the National Institute of Standards and Technology Advanced Technology Program (NIST-STP).

2. Please delete paragraph 189 on page 54, and replace it with the following paragraph, which is identical to the original paragraph but for removing the inadvertent highlighting of the term “SEQ ID NO:49 though SEQ ID NO:59” at line 10 of page 54:

[0001] Several full-length nucleic acid sequences encoding the mannosidase II enzyme have been identified and sequenced. The mannosidase II enzyme sequences are set forth in SEQ ID NO: 49 through SEQ ID NO: 59. An alignment of known mannosidase II sequences (*i.e.*, *Drosophila melanogaster* aligned to other insect, animal and plant sequences) shows a highly conserved motif between amino acids 144-166 and amino acids 222-285 (**Figure 23**). Accordingly, in another aspect, the invention relates to a method for providing to a host cell a nucleic acid encoding a Class 2 mannosidase enzyme activity wherein the nucleic acid is characterized by having the above conserved mannosidase II regions.